



JP63304613A2: MANUFACTURE OF ALUMINUM ELECTRODE FOR ELECTROLYTIC CAPACITOR

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Kind:
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Abstract

Purpose: To improve the electrostatic capacity of electrolytic capacitors and make them small-sized by generating a dielectric film wherein barium titanate or barium lanthanate is contained in an aluminum oxide thin film, thereby providing breakdown strength to be obtained by the aluminum oxide.

Constitution: With the deposition thickness of the barium titanate or barium lanthanate to be sprayed and deposited onto the surface being limited to 0.1 μ m or less, an oxide film of an appropriate density is formed within a short time. When sprayed to aluminum, $d'=14\text{Å}$ (V is for the later anodization) is preferable as the thickness d' to be sprayed. The electrode foil produced in this way becomes an article of a very high electrostatic capacity since the capacitors by the oxide film of the sprayed metal and the aluminum oxide film are equivalently connected in parallel, and the breakdown strength of the dielectric film is also good, so that electrolytic capacitors can substantially be made small. In addition, the spray coating is smoothly performed also on an aluminum foil having considerable irregularities on the etched surface thereof, electrolytic capacitors can remarkably be made small.

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